CoE 197-S ME 8 Activity 3

1. Getting setup

```
PS C:\WINDOWS\system32> docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
Digest: sha256:9775877f420d453ef790e6832d77630a49b32a92b7bedf330adf4d8669f6600e
Status: Image is up to date for ubuntu:16.04
docker.io/library/ubuntu:16.04
PS C:\WINDOWS\system32> docker images
                         IMAGE ID
REPOSITORY
              TAG
                                         CREATED
                                                           SIZE
delner/ping
              latest
                         e7f82fa5a9c5
                                         12 minutes ago
                                                           170MB
ubuntu
              16.04
                         9ff95a467e45
                                         2 weeks ago
                                                           135MB
PS C:\WINDOWS\system32> docker rmi e7f
Untagged: delner/ping:latest
Deleted: sha256:e7f82fa5a9c585219be40cecc7b87169009661078120043de124d97e5a6c639d
Deleted: sha256:819f2b04fb7f7129bf590971d6ecfc7036bbce9a6e10c478e6c55397efaf57f9
```

2. Creating a Dockerfile

3. Building the Dockerfile

```
PS E:\> cd "Janzen Desktop\Third Year Second Sem\Cot 197-S\Week 10\ME8\ME8_Containerization_and_Docker\3-building_images"
PS E:\Janzen Desktop\Third Year Second Sem\Cot 197-S\Week 10\ME8\ME8_Containerization_and_Docker\3-building_images> docker build -t 'delner/ping'
"docker build" requires exactly 1 argument.
See 'docker build --help'.

Usage: docker build [OPTIONS] PATH | URL | -

Build an image from a Dockerfile
PS E:\Janzen Desktop\Third Year Second Sem\Cot 197-S\Week 10\ME8\ME8_Containerization_and_Docker\3-building_images> docker build -t 'delner/ping' .

[+] Building 66.5s (7/7) FINISHED

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS E:\Janzen Desktop\Third Year Second Sem\Cot 197-S\Week 10\ME8\ME8_Containerization_and_Docker\3-building_images> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
delner/ping latest 2726/cfcdelee About a minute ago 170MB
ubuntu 16.04 9ff95a467e45 2 weeks ago 135MB
```

4. Optimizing the Dockerfile

```
PS E:\Janzen Desktop\Third Year Second Sem\CoE 197-S\Week 10\ME8\ME8_Containerization_and_Docker\3-building_images> docker build -t 'delner/ping' .

[+] Building 63.1s (6/6) FINISHED

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS E:\Janzen Desktop\Third Year Second Sem\CoE 197-S\Week 10\ME8\ME8_Containerization_and_Docker\3-building_images> docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

delner/ping latest 9bzbb148d343 6 seconds ago 139MB

vbuntu 16.04 9ff95a467e45 2 weeks ago 135MB
```

5. Other Dockerfile directives